JVC

SERVICE MANUAL

MODEL
9115,E,F,FB
PORTABLE CASSETTE RECORDER

No. 1290
May 1975

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Specifications

DIMENSIONS : 7.8cm (H) x 24.4cm (W) x 21.0cm (D)
3-1/8" x 9-5/8" x 8-1/4"

WEIGHT : Approx. 2.4kg (with batteries)
5.3 lbs.

RECORDER SECTION

Tape Speed	4.75cm/s (1-7/8 ips)
Track System	2-track monaural
Monitor	Variable monitor system
Recording System	AC bias
Erasing System	DC erasing
Rewind Time	Within 95 sec (C-60 cassette)
Fast Forward Time	Within 140 sec (C-60 cassette)
Wow & Flutter	Less than 0.3% (WRMS)

AMPLIFIER SECTION

Speaker	9cm (3-1/2")
Power Output	1000mW

POWER SOURCE

DC	6V 4 D-cell or equivalent
AC	120V 50/60Hz (9115) 110/220V 50/60Hz (9115E) 220V (110V) 50/60Hz (9115F) 240V 50/60Hz (9115FB)

Removal of Chassis

Rear Cabinet (Refer to Fig. 1.)

Remove 5 screws (1)~(5) : SBSB3012R.

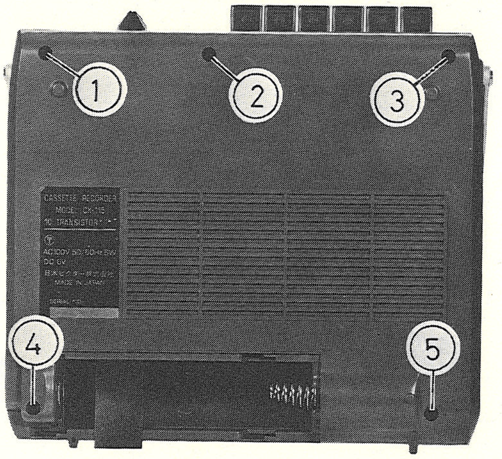


Fig. 1

Cassette Mechanism (Refer to Fig. 2.)

1. Remove 3 screws (6)~(8) : SBSB3010C.
2. Take off the volume and tone control knobs and remove 2 screws (9) & (10) : SBSB3008Z.
3. Disolder the wires from condenser microphone, speaker (black and yellow) and power supply circuit board (red and black).

Amplifier Circuit Board (Refer to Fig. 2.)

Remove 3 screws (11)~(13) : LPSP2606Z and the screw (14) : LPSP2606Z which if fixing the radiation plate to the cassette mechanism chassis.

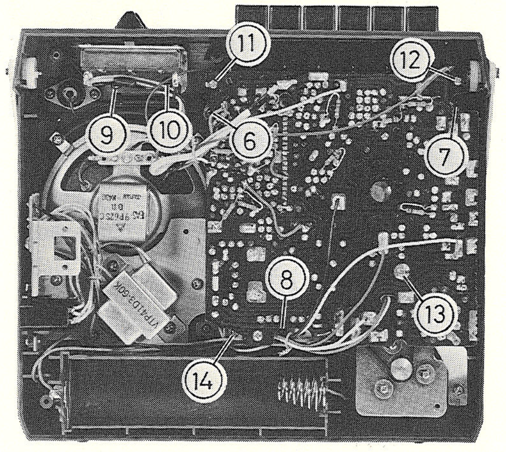


Fig. 2

Adjuting Head Azimuth

When replace the play/rec head, adjust the head azimuth as following steps.

1. Connect a V.T.V.M. to the speaker terminals.
2. Playback the standard test tape for angle adjustment (8000Hz).
3. Adjust the head angle by turning the screw (B) minutely for maximum output.

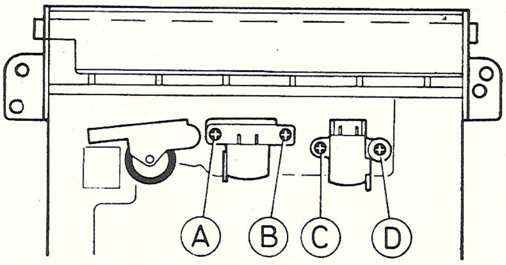


Fig. 3

Adjusting Recording Bias

Bias Current

Check to see that the voltage between the point "A" and the earth point is 10 thru 11mV. (Refer to Fig. 4.)

Note: It is not neccessory to adjust bias current.

Bias Frequency

1. Connect the V.T.V.M. to the EARPHONE jack.
2. Set the recorder in the recording mode.
3. Adjust the oscillator coil T3 so that the V.T.V.M. shows minimum output. (Refer to Fig. 4.)

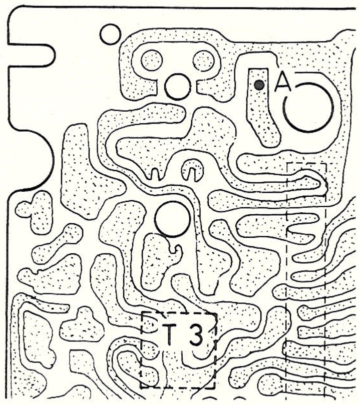


Fig. 4

Block Diagram

Recording Mode

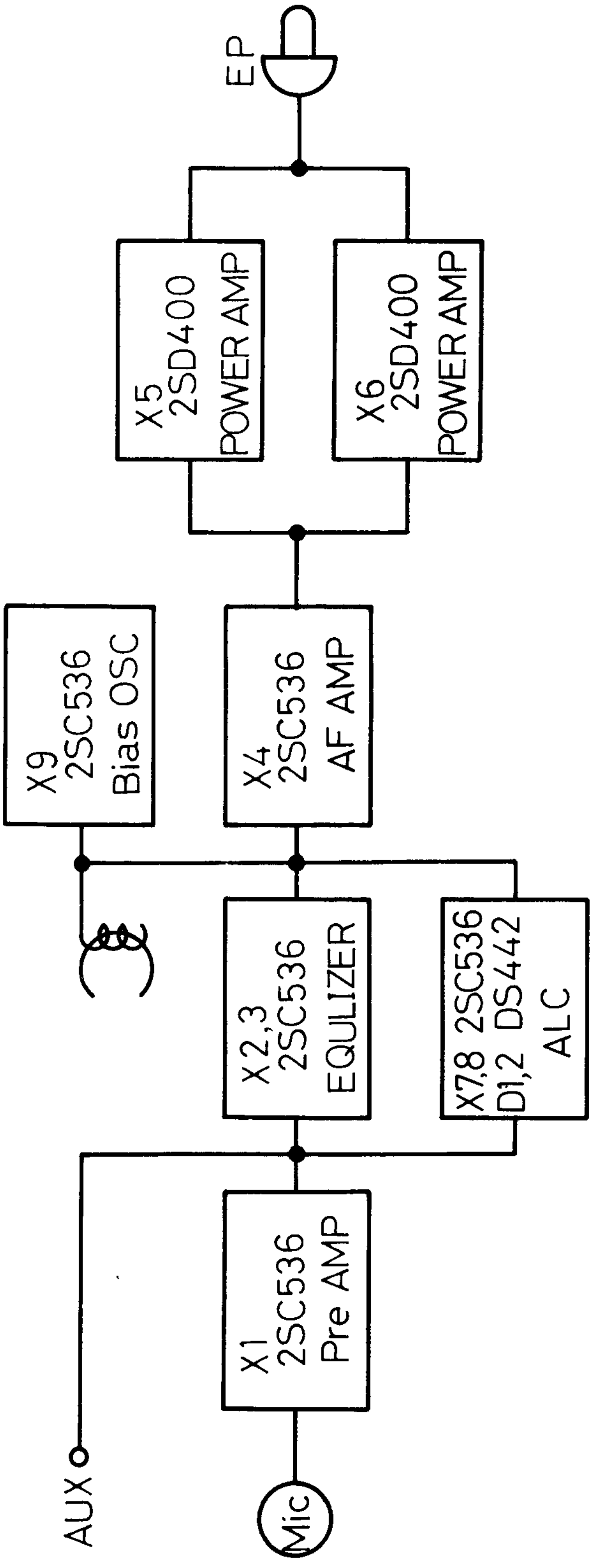

EP
X5
2SD400
POWER AMP
X6
2SD400
POWER AMP
X9
2SC536
Bias OSC
X4
2SC536
AF AMP
X2,3
2SC536
EQULIZER
X7,8 2SC536
D1,2 DS442
ALC
X1
2SC536
Pre AMP
AUX
Mic

Fig. 5

Playback Mode

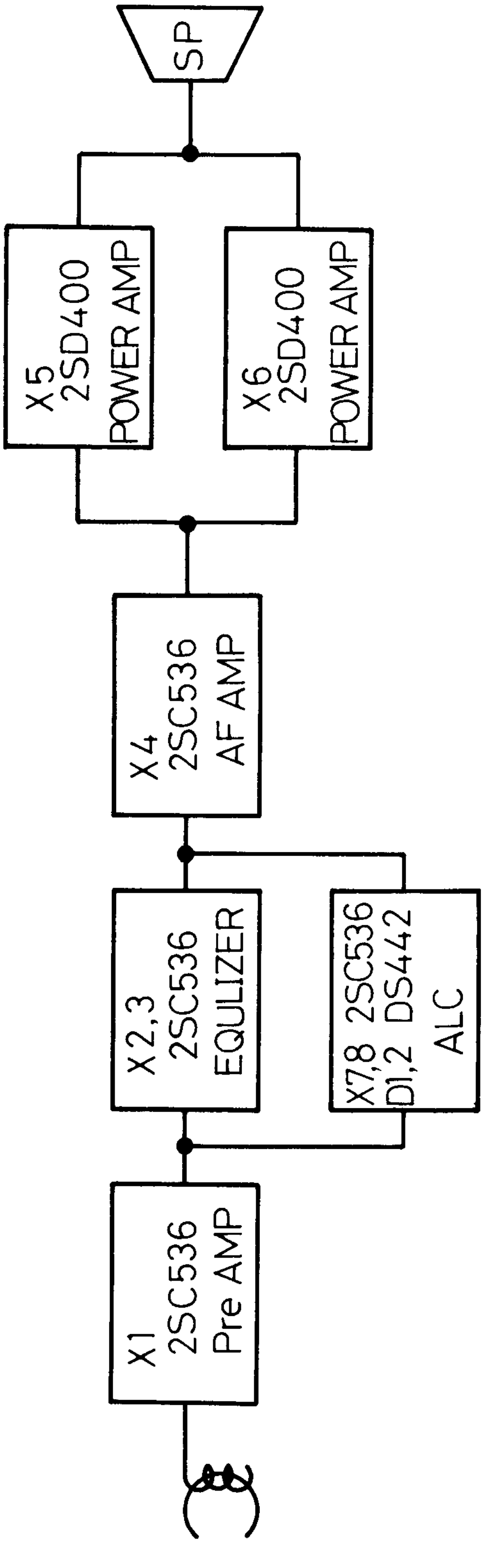

SP
X5
2SD400
POWER AMP
X6
2SD400
POWER AMP
X4
2SC536
AF AMP
X2,3
2SC536
EQULIZER
X7,8 2SC536
D1,2 DS442
ALC
X1
2SC536
Pre AMP

Fig. 6

Wiring Connection (9115E)

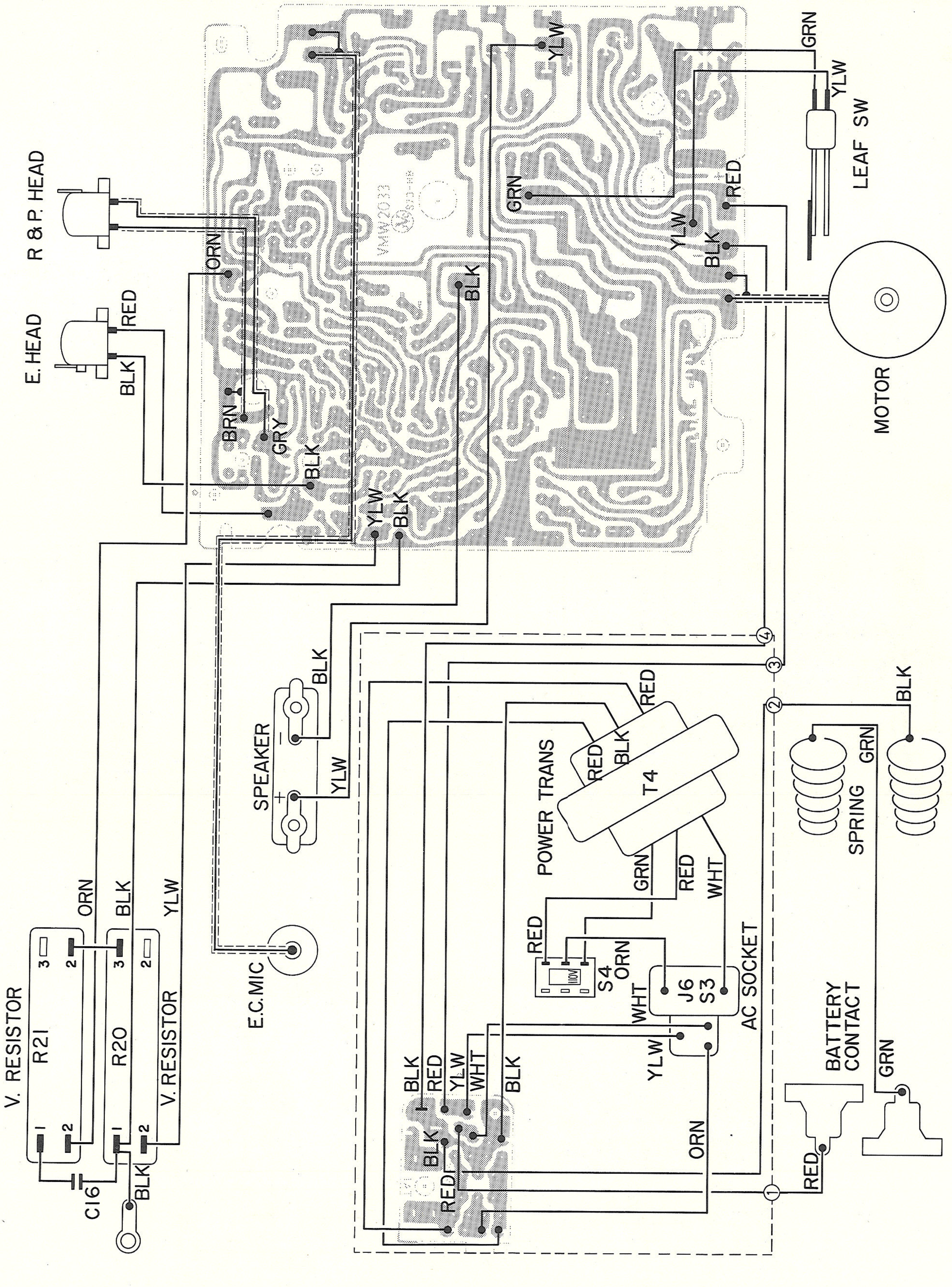

R & P. HEAD
E. HEAD
RED
BLK
ORN
BRN
GRY
BLK
YLW
BLK
BLK
YLW
GRN
GRN
YLW
LEAF SW
RED
YLW
BLK
MOTOR
VMW2033
SPEAKER
BLK
−
+
YLW
E.C.MIC
V. RESISTOR
R21
3
2
1
2
R20
3
2
1
2
V. RESISTOR
ORN
BLK
YLW
C16
BLK
POWER TRANS
T4
RED
BLK
RED
GRN
RED
WHT
RED
S4
ORN
110V
J6
S3
AC SOCKET
WHT
YLW
BLK
RED
YLW
WHT
BLK
BLK
RED
ORN
4
3
2
1
BLK
GRN
SPRING
BATTERY CONTACT
GRN
RED

Fig. 7

Wiring Connection (9115,F,FB)

Wiring conections of Model 9115,F & FB are the same as for Model 9115E except the power supply circuit, refer to Fig. 7.

9115

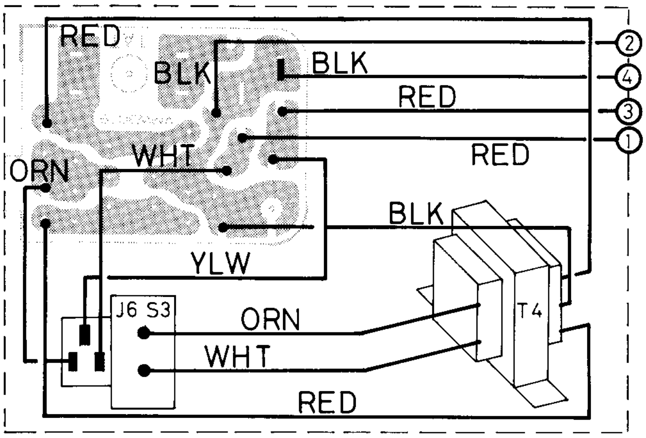

RED
BLK
BLK
RED
RED
ORN
WHT
BLK
YLW
J6 S3
ORN
WHT
RED
T4
②
④
③
①

Fig. 8-A

9115F

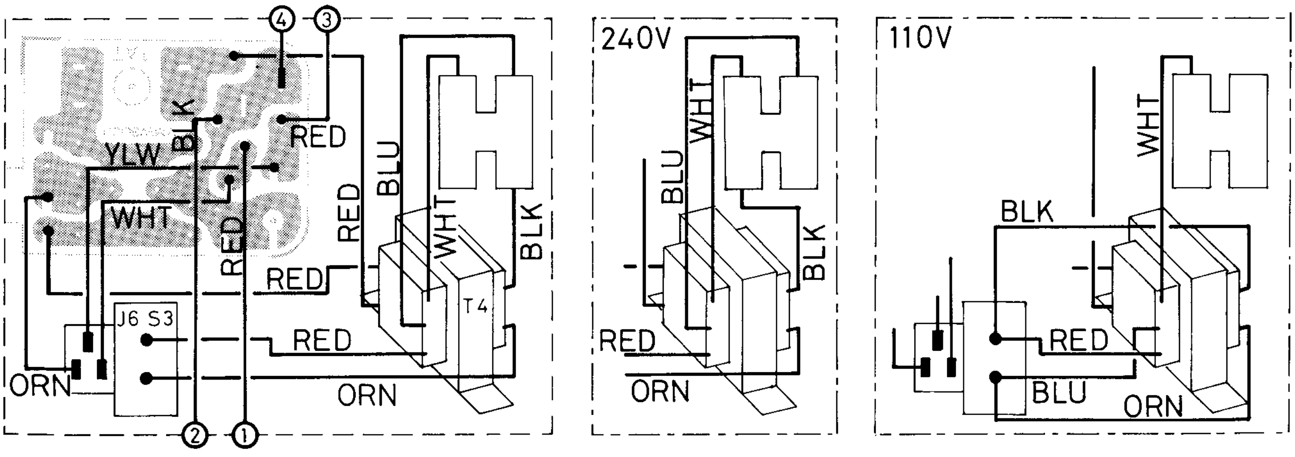

④
③
YLW
BLK
RED
WHT
RED
RED
BLU
WHT
BLK
RED
J6 S3
RED
ORN
ORN
T4
②
①
240V
BLU
WHT
BLK
RED
ORN
110V
WHT
BLK
RED
BLU
ORN

Fig. 8-B

9115FB

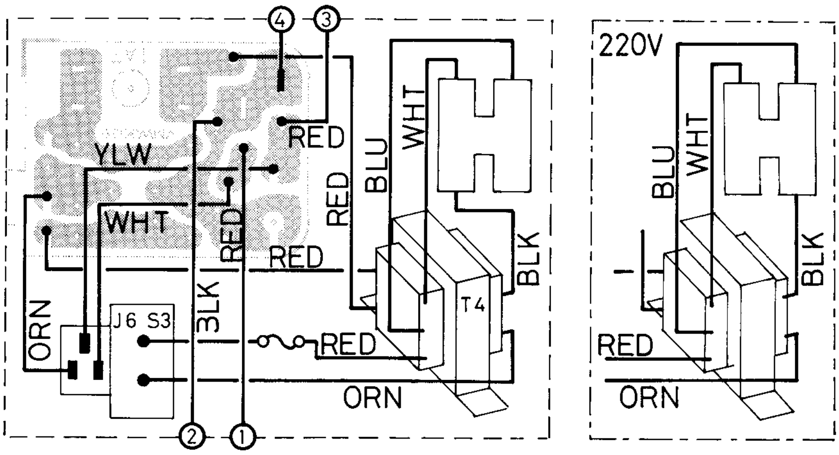

④
③
YLW
RED
WHT
RED
RED
RED
BLU
WHT
BLK
ORN
BLK
J6 S3
RED
ORN
T4
②
①
220V
BLU
WHT
BLK
RED
ORN

Fig. 8-C

Schematic Diagram of 9115

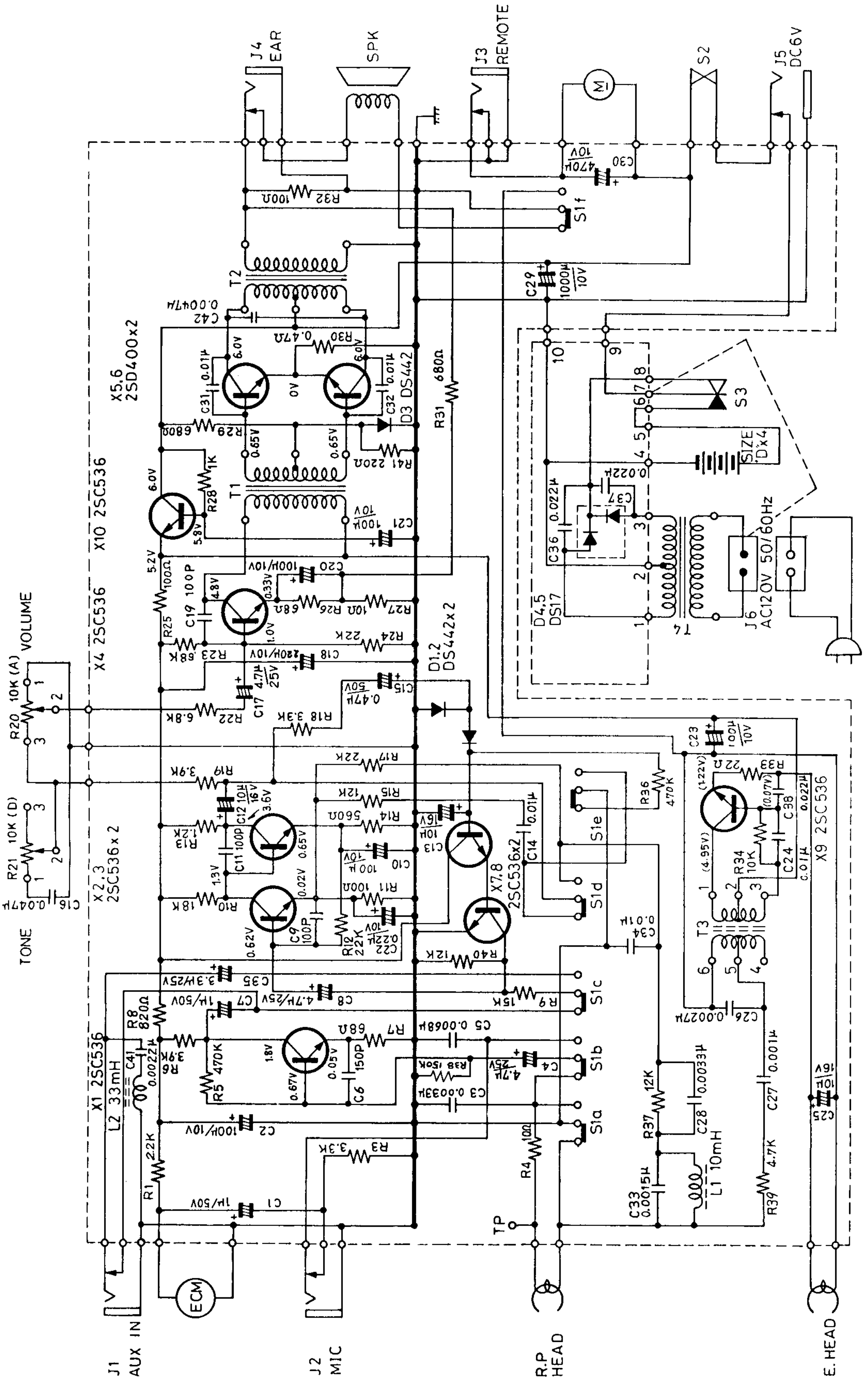
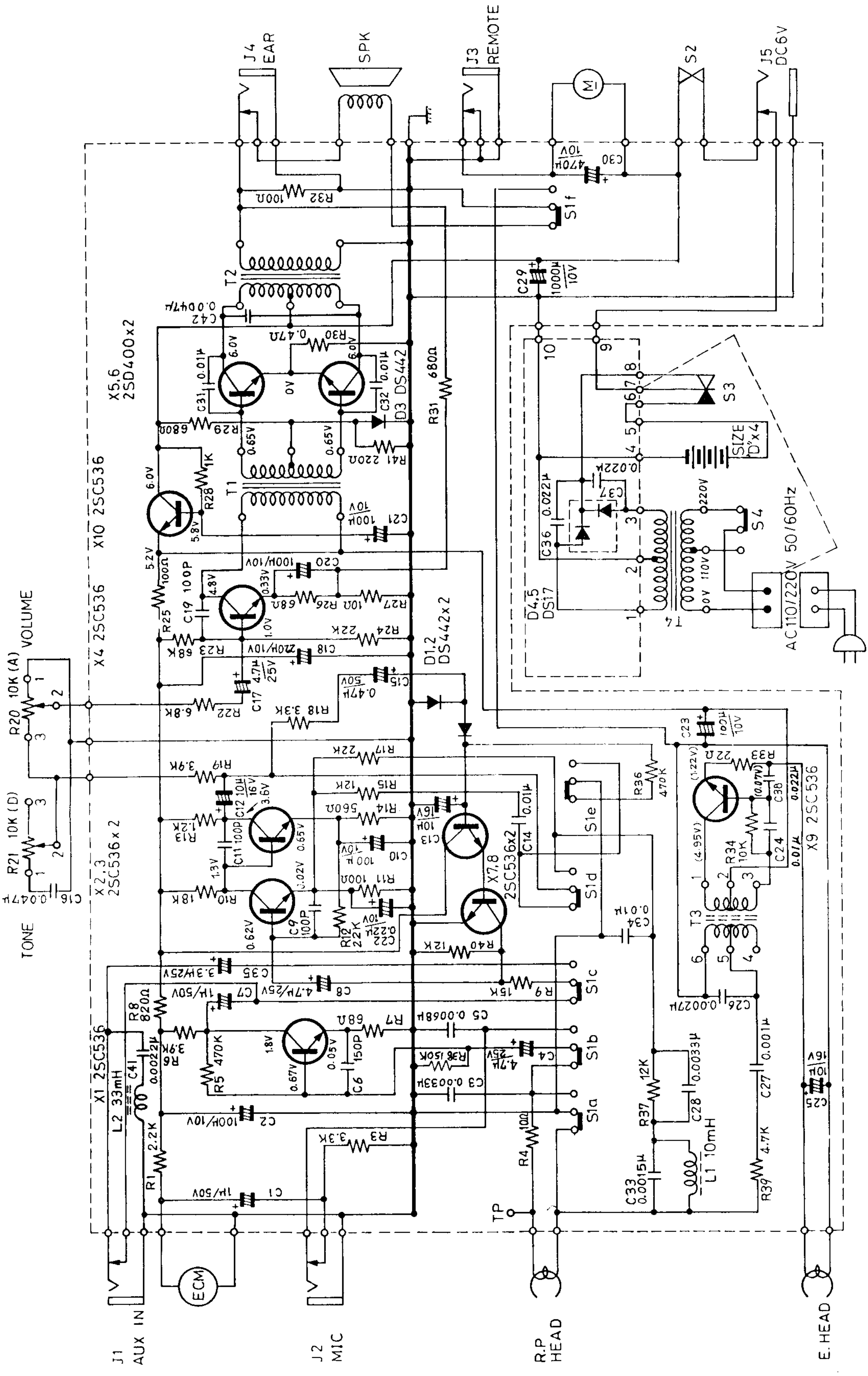

J1 AUX IN
J2 MIC
ECM
R.P. HEAD
TP
E. HEAD
J4 EAR
SPK
J3 REMOTE
M
S2
J5 DC6V
J6 AC120V 50/60Hz
SIZE 'D'x4
S3
T1
T2
T3
T4
L1 10mH
L2 33mH
X1 2SC536
X2,3 2SC536x2
X4 2SC536
X10 2SC536
X5,6 2SD400x2
X7,8 2SC536x2
X9 2SC536
D1,2 DS442x2
D3 DS442
D4,5 DS17
R20 10K(A) VOLUME
R21 10K(D) TONE
C16 0.047μ
S1a
S1b
S1c
S1d
S1e
S1f
R31 680Ω
R30 0.47Ω
R32 100Ω
C29 1000μ 10V
C30 470μ 10V

Fig. 9

NOTE
1. PLAYBACK RECORD SWITCH(S1a~f) IS PLAYBACK POSITION.
2. VOLTAGES ARE MEASURED WITH NO SIGNAL USING V. T. V. M.
AT PLAYBACK POSITION,( ) VALUES AT RECORDING POSITION.
3. LAST NO. R41 C42
BLANK NO. R2, 16, 35   C39, 40

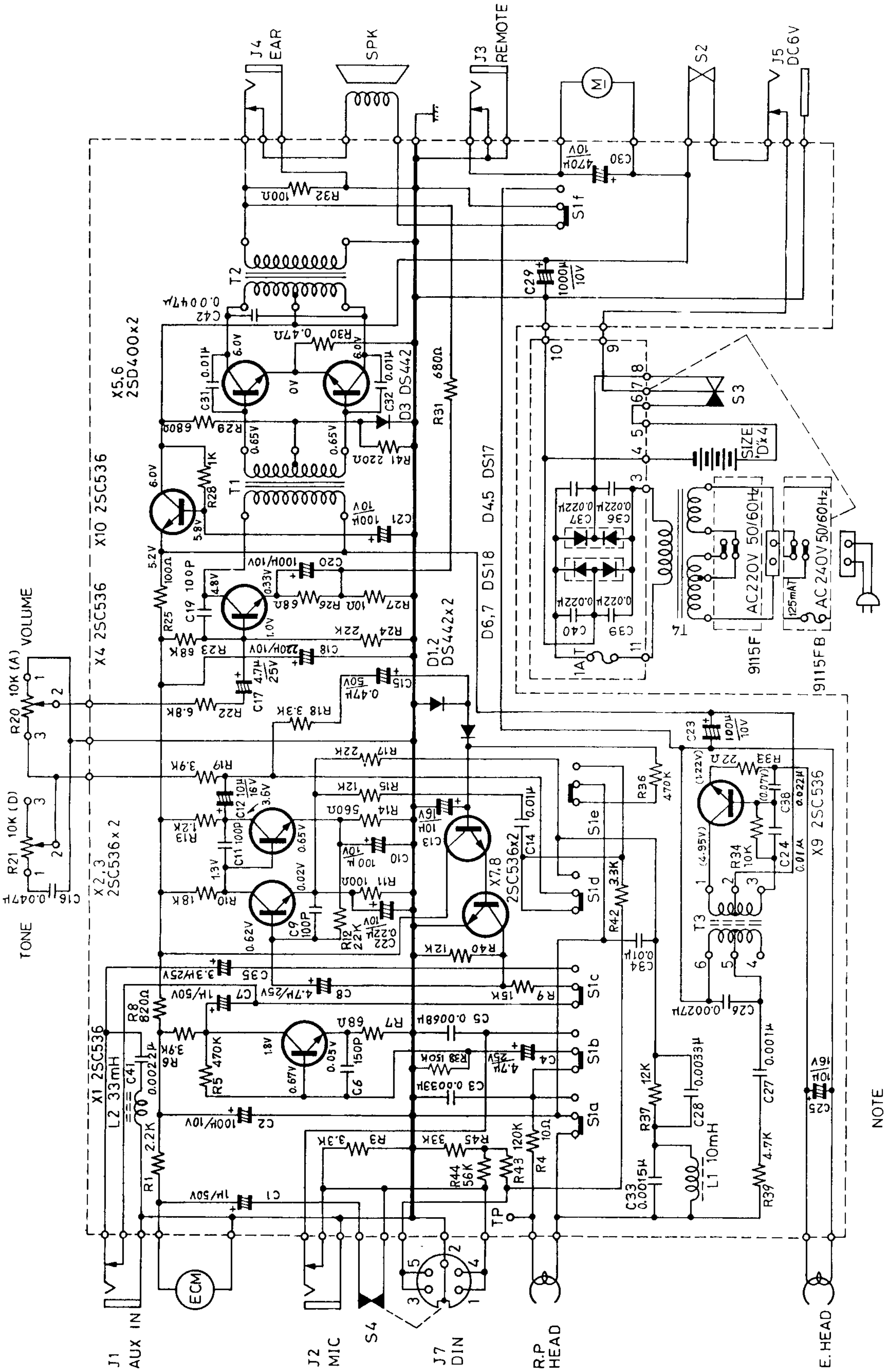
Schematic Diagram of 9115E


J1 AUX IN
J2 MIC
ECM
R.P HEAD
E. HEAD
TP
J4 EAR
SPK
J3 REMOTE
M
S2
J5 DC6V
X1 2SC536
X2,3 2SC536x2
X4 2SC536
X10 2SC536
X5,6 2SD400x2
X7,8 2SC536x2
X9 2SC536
D1,2 DS442x2
D3 DS442
D4,5 DS17
T1
T2
T3
T4
L1 10mH
L2 33mH
R20 10K (A) VOLUME
R21 10K (D) TONE
S1a
S1b
S1c
S1d
S1e
S1f
S3
S4
SIZE "D"x4
AC110/220V 50/60Hz
220V
110V
0V

NOTE
1. PLAYBACK RECORD SWITCH(S1a~f) IS PLAYBACK POSITION.
2. VOLTAGES ARE MEASURED WITH NO SIGNAL USING V.T.V.M. AT PLAYBACK POSITION.( ) VALUES AT RECORDING POSITION.
3. LAST NO. R41 C42
BLANK NO. R2, 16, 35 C39, 40

Fig. 10

Schematic Diagram of 9115F,FB


J1 AUX IN
ECM
J2 MIC
S4
J7 DIN
R.P HEAD
E.HEAD
TP
J4 EAR
SPK
J3 REMOTE
M
S2
J5 DC6V
X1 2SC536
L2 33mH
X2,3 2SC536×2
X4 2SC536
X10 2SC536
X5,6 2SD400×2
X7,8 2SC536×2
X9 2SC536
D1,2 DS442×2
D3 DS442
D4,5 DS17
D6,7 DS18
T1
T2
T3
T4
L1 10mH
S1a
S1b
S1c
S1d
S1e
S1f
S3
SIZE 'D'×4
AC220V 50/60Hz
AC 240V 50/60Hz
9115F
9115FB
1AT
125mAT
TONE
R21 10K (D)
R20 10K (A)
VOLUME
C16 0.047μ
R1 2.2K
R3 3.3K
R4 10Ω
R5 470K
R6 3.9K
R7 68Ω
R8 820Ω
R9 15K
R10 18K
R11 100Ω
R12 2.2K
R13 1.2K
R14 560Ω
R15 12K
R17 22K
R18 3.3K
R19 3.9K
R22 6.8K
R23 68K
R24 22K
R25 100Ω
R26 10Ω
R27 68Ω
R28 1K
R29 680Ω
R30 0.47Ω
R31 680Ω
R32 100Ω
R33 22Ω
R34 10K
R36 470K
R37 12K
R38 150K
R39 4.7K
R40 12K
R41 220Ω
R42 3.3K
R43 120K
R44 56K
R45 33K
C1 1μ/50V
C2 100μ/10V
C3 0.0033μ
C4 4.7μ 25V
C5 0.0068μ
C6 150P
C7 1μ/50V
C8 4.7μ/25V
C9 100P
C10 100μ 10V
C11 100P
C12 10μ 16V
C13 10μ 16V
C14 0.01μ
C15 0.47μ 50V
C17 4.7μ 25V
C18 220μ/10V
C19 100P
C20 100μ/10V
C21 100μ 10V
C22 0.22μ
C23 100μ 10V
C24 0.01μ
C25 10μ 16V
C26 0.0027μ
C27 0.001μ
C28 0.0033μ
C29 1000μ 10V
C30 470μ 10V
C31 0.01μ
C32 0.01μ
C33 0.0015μ
C34 0.01μ
C35 3.3μ/25V
C36 0.022μ
C37 0.022μ
C38 0.022μ
C39 0.022μ
C40 0.022μ
C41 0.002μ
C42 0.0047μ
6.0V
5.8V
5.2V
4.8V
0.33V
1.0V
0.65V
0V
3.6V
1.3V
0.62V
0.02V
1.8V
0.67V
0.05V
(1.22V)
(4.95V)
(0.07V)

NOTE
1. PLAYBACK RECORD SWITCH(S1a~f) IS PLAYBACK POSITION.
2. VOLTAGES ARE MEASURED WITH NO SIGNAL USING V.T.V.M.
AT PLAYBACK POSITION,( )VALUES AT RECORDING POSITION.
3. LAST NO. R45 C42
BLANK NO. R2,16,35

Fig. 11

Final Packing Ass'y

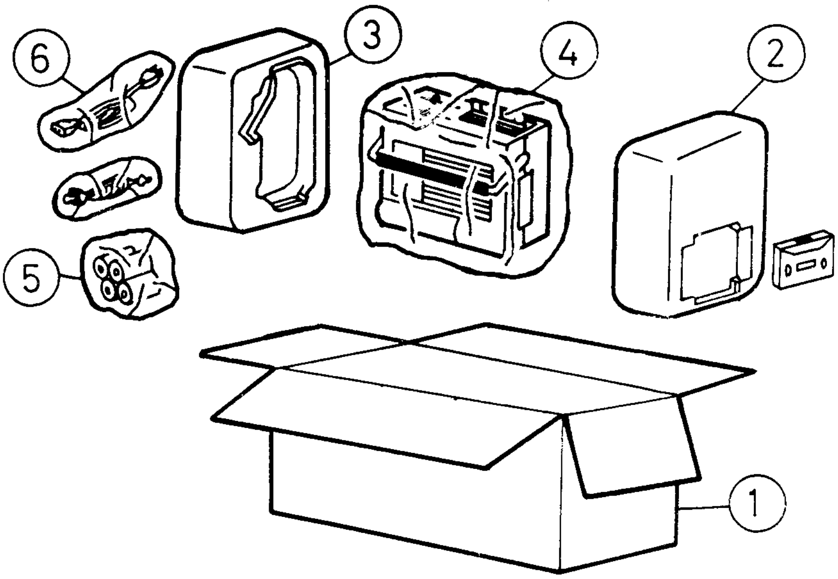


Fig. 12

Ref. No.	Parts No.	Parts Name	Description
1~3	VP3314-00A	Carton Box Ass'y	9115E
1~3	VP3314-00B	〃	9115
1~3	VP3314-00C	〃	9115F,FB
1	VP3314-001	Carton Box	
2	VP1489-001	Side Cushion	Right
3	VP1490-001	〃	Left
4	06026-55	Cabinet Cover	
5	06023-15	Parts Sack	for Batteries
6	06023-9	〃	for Power Cord

Accessories

Parts No.	Parts Name	Description
QME1308-004	Magnetic Earphone	
VGT45S1-J01	Cassette Tape	will be changed in to VGT12S2-J01
V04056-1	Shorting Plug	for erasing
V43338-1	Head Cleaner	
QMP1240-183	Power Cord with Plug	9115 (125V/7A)
QMP3950-183	〃	9115F (250V/2.5A)
QMP7640-183	〃	9115E (250V/3A) Standard type AC plug
or QMP7840-183	〃	〃 (250V/7A)
QMP9017-006	Power Cord without AC Plug	9115FB (for U.K.)

Main Parts Location

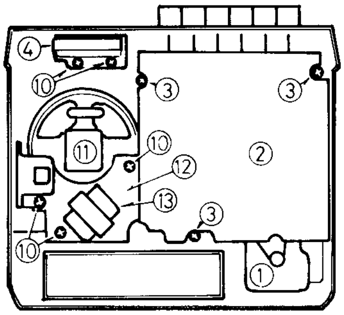


Fig. 13

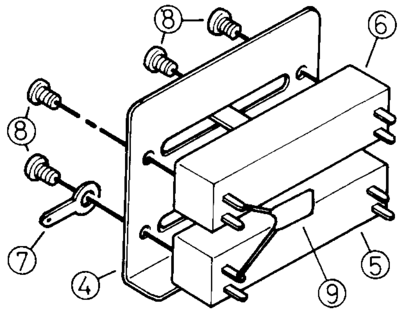


Fig. 14

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	———	Cassette Mechanism		1
2	———	Circuit Board Ass'y	Amplifier	1
3	SBSB3012R	Screw		3
4	V44498-001	Slide Volume Bracket		1
5	QVS3AFA-014A	Variable Resistor	R20	1
6	QVS3AFD-014A	〃	R21	1
7	50242-2	Terminal Lug		1
8	SPSP2604Z	Screw		4
9	QFM41HM-473	Mylar Capacitor	C16	1
10	SBSB3008Z	Screw		5
11	EAS9P66S	Speaker		1
12	V31012-001	Transformer Bracket	9115,E	1
12	〃 -002	〃	9115F,FB	1
13	VTP41A3-60N	Power Transformer	T4 9115	1
13	VTP41E3-60R	〃	〃 9115E	1
13	VTP41N2-60B	〃	〃 9115F,FB	1

Exploded View of Amplifier Ass'y

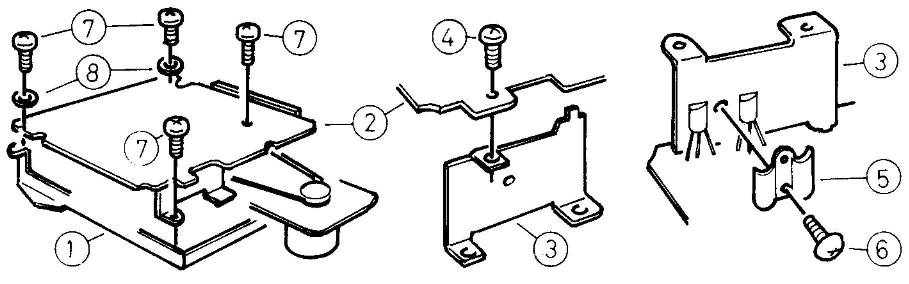


Fig. 15

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	———	Cassette Mechanism		1
2	———	Circuit Board Ass'y	Amplifier	1
3	V44505-001	Radiation Bracket		1
4	LPSP3006ZS	Screw		1
5	V43343-003	Radiation Plate		1
6	SBSB3006Z	Screw		1
7	LPSP2606Z	〃		4
8	WNB2600N	Washer		2

Exploded View of Cabinet

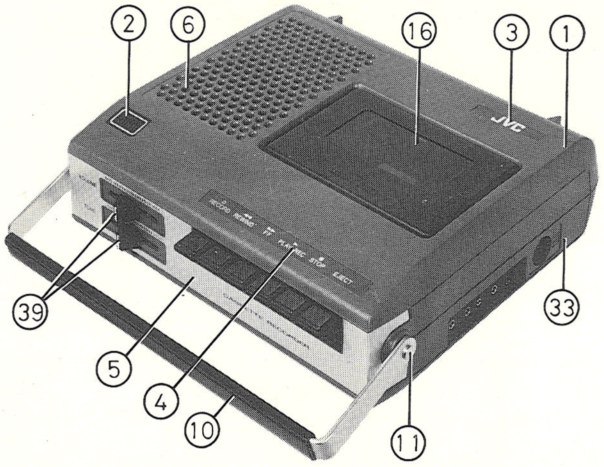
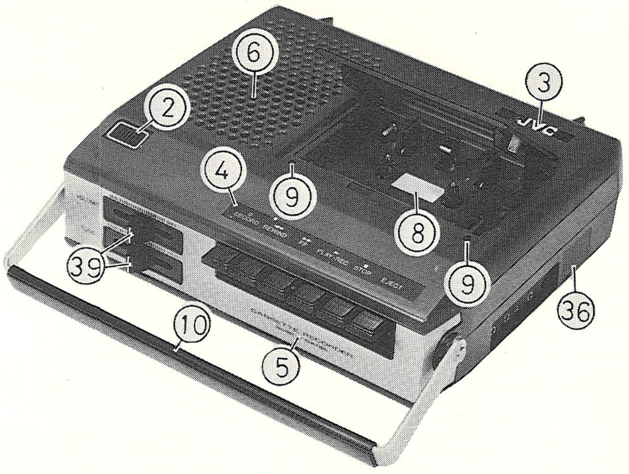

2
6
16
3
1
39
33
5
4
10
11

Fig. 16-A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9
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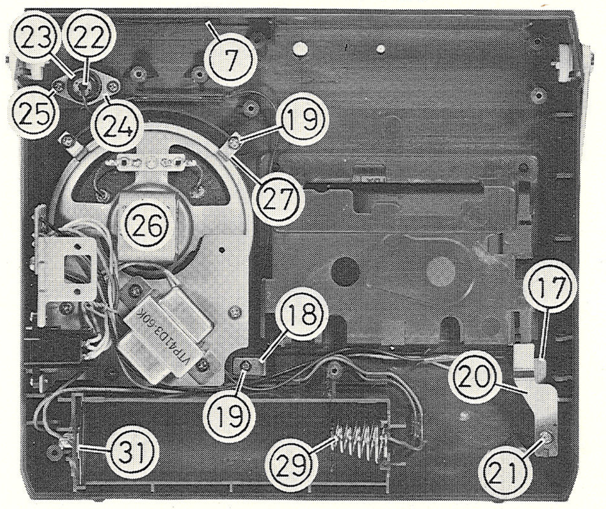
9
39
36
10
5

Fig. 16-B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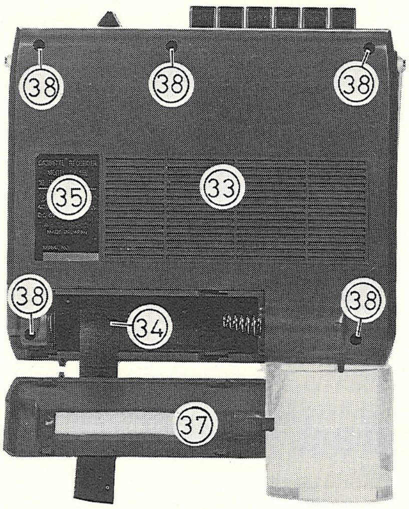
31
29
21

Fig. 17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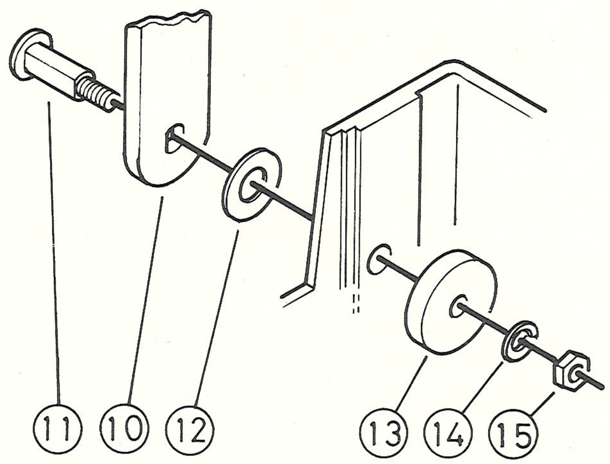
38
37

Fig. 18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10
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13
14
15

Fig. 19

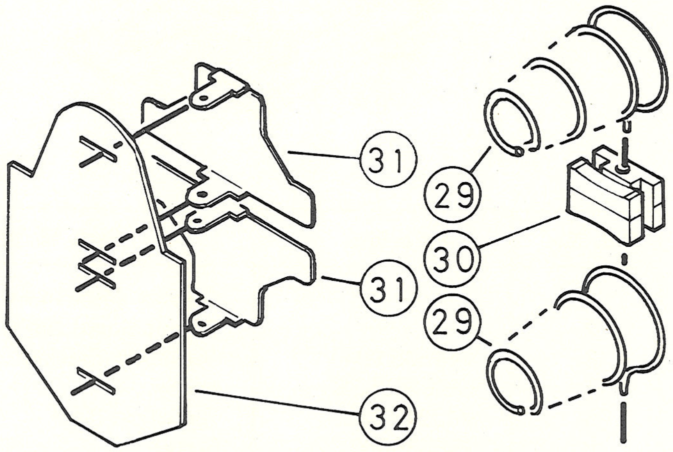
31
31
29
30
29
32

Fig. 20

List of Cabinet

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1~15	**ZC9115-CBF**	**Front Cabinet Ass'y**	**9115**	**1**
1~15	**ZC9115E-CBF**	〃	**9115E**	**1**
1~15	**ZC9115F-CBF**	〃	**9115F**	**1**
1~15	**ZC9115FB-CBF**	〃	**9115FB**	**1**
1	V10272-001	Front Cabinet		1
2	V44492-001	Microphone Plate	Glued	1
	47115-043	Saran Net	〃 (under Ref. No. 2)	1
3	V44493-002	Mark	〃	1
4	V44494-001	Plate	〃	1
5	V31010-001	Control Plate	〃	1
6	47115-044	Saran Net	Glued to Speaker Grill	1
7	V44497-001	Dust Pad	Glued	1
8	V42616-2	Plate	〃	1
9	V44394-001	Stopper Cushion	Force Fitted	2
10	V30791-00K	Handle Ass'y		1
11	V44495-001	Special Screw		2
12	VYSS2R4-004	Spacer		2
13	V44441-001	Handle Spacer		2
14	WLS3000	Lock Washer		2
15	NTB3000S	Nut		2
16	V31008-001	Cassette Door		1
17	T48180-001	Stopper (1)		1
18	V44496-001	〃 (2)		1
19	SBSB3008Z	Screw		5
20	V44297-001	Spring		1
21	SBSB3010Z	Screw		1
22	VMME62N-003	Condenser Microphone		1
23	T45440-001	Microphone Holder		1
24	T45441-001	Microphone Bracket		1
25	SBSB2606Z	Screw		2
26	EAS9P66S	Speaker		1
27	T43614-002	Speaker Bracket		3
28	V42603-2	Wire Clamp		1
29	53738-1	Spring		2
30	V44506-001	Stopper		1
31	V44499-001	Battery Contact	Glned to ref. No. 32	2
32	V44500-001	Spacer		1
33~36	**ZC9115-CBR**	**Rear Cabinet Ass'y**	**9115**	**1**
33~36	**ZC9115E-CBR**	〃	**9115E**	**1**
33~35	**ZC9115F-CBR**	〃	**9115F**	**1**
33~35	**ZC9115FB-CBR**	〃	**9115FB**	**1**
33	V10273-001	Rear Cabinet		1
34	V41583-3	Ribbon Ass'y	Glued	1
35	VYN5023-002C	Name Plate	〃 9115	1
35	〃 -003C	〃	〃 9115F	1
35	〃 -005C	〃	〃 9115FB	1
36	V44501-001	Plate	〃 9115,E	1
37	**ZC9115-BCA**	**Battery Cover Ass'y**		**1**
38	SBSB3012R	Screw		5
39	V44502-001	Slide Knob	Tone & Volume	2

Exploded View of Cassette Mechanism

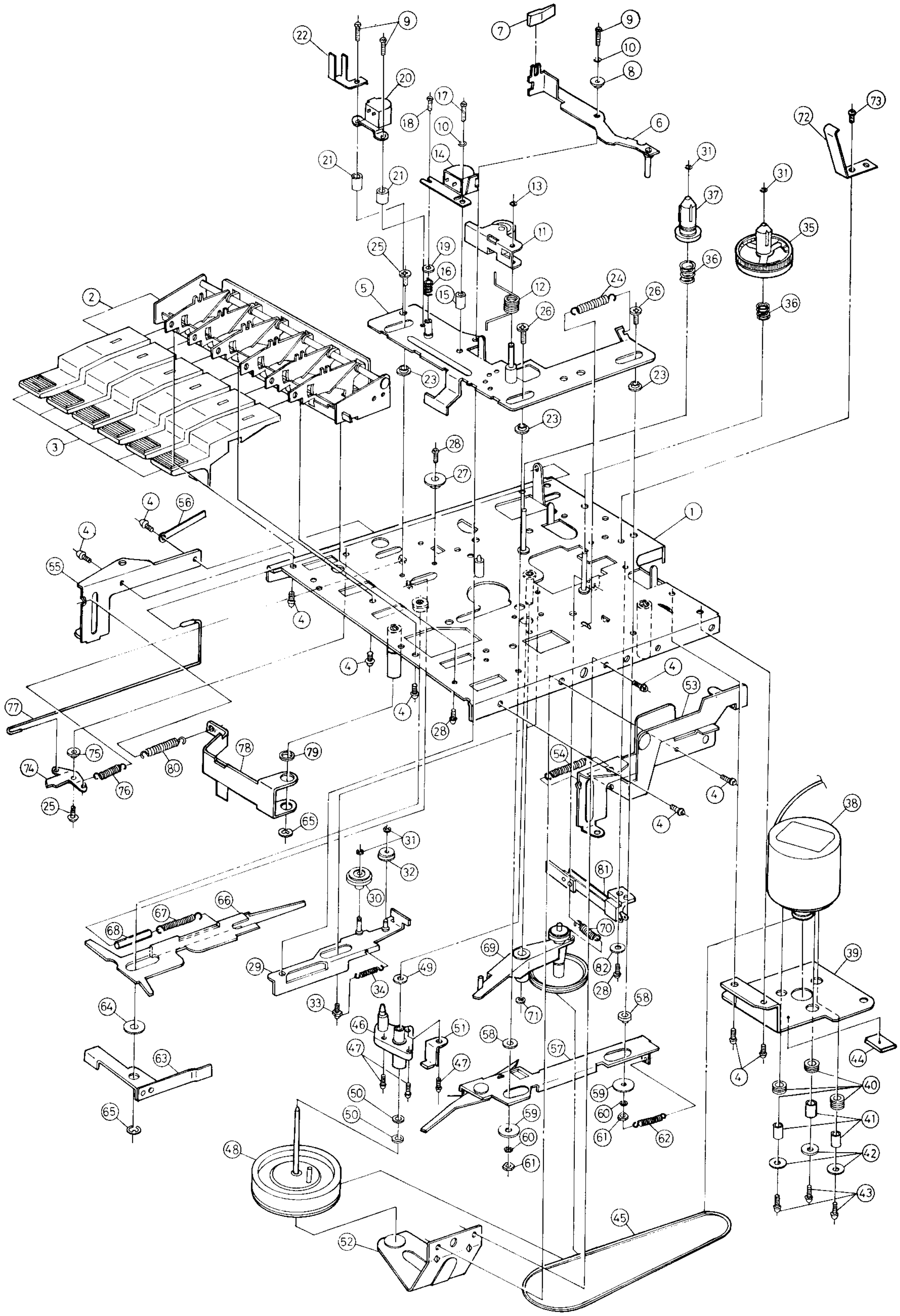
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Fig. 21

List of Cassette Mechanism

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	4460180ZT	Chassis Ass'y		1
2	5730291ZT	Push Switch Ass'y		1
3	5730202T	Push Button		6
4	LPSP2606Z	Ass'y Screw		10
5	4460381ZT	Head Panel Ass'y		1
6	581381ZT	Stop Detect Lever Ass'y		1
7	4531301T	Stop Detect Contact		1
8	581311T	Collar		1
9	SPSP2010Z	Screw		3
10	WLS2000	Lock Washer		2
11	1550596ZT	Pinch Roller Arm Ass'y		1
12	1550506T	Pinch Roller Spring		1
13	REE1900	E-Ring		1
14	V03078-20	PLAY/REC Head		1
15	040405T	Collar		1
16	480408T	Spring		1
17	SPSP2012Z	Screw		1
18	SPSP2006Z	〃		1
19	WNS2000Z	Washer		1
20	V03078-028	Erase Head		1
21	4630402T	Collar		2
22	4080430T	Wire Clamp		1
23	090302T	Collar		3
24	150802T	Spring		1
25	SDSP2606Z	Screw		2
26	SDSP2614Z	〃		2
27	4460301T	Head Panel Stopper		1
28	SPSP2606Z	Screw		3
29	4460683ZT	FF Idler Arm Ass'y		1
30	2570703T	Takeup Roller		1
31	REE1200	E-Ring		4
32	3900802T	FF Idler		1
33	3951005T	FF Idler Arm Metal		1
34	1320303T	Spring		1
35	1490791ZT	Reel Disk Ass'y		1
36	050502T	Spring		2
37	580500AZT	Supply Reel Ass'y		1
38	DF610R35	Motor		1
39	4461101T	Motor Bracket		1
40	2400902T	Motor Rubber		3
41	2400903T	Motor Collar		3
42	4461103T	Special Washer		3
43	SPSP2608Z	Screw		3
44	4461102T	Mat		1
45	2381104T	Main Belt		1
46	3690701T	FL Block		1
47	LPSP2005Z	Ass'y Screw		3
48	580903T	Flywheel Ass'y		1
49	031503T	Special Washer		1
50	031504T	〃		2
51	4460701T	Earth Plate		1
52	041295ZT	Flywheel Holder Ass'y		1
53	5730991ZT	Eject Bracket Ass'y		1
54	481008T	Spring		1
55	5731001T	Chassis Bracket		1
56	021408T	Wire Clamp		1
57	1480381ZT	Auto Stop Lever Ass'y		1
58	531306T	Collar		2
59	031501T	Special Washer		2
60	WLS2600	Lock Washer		2
61	NTB2600	Nut		2
62	581316T	Spring		1
63	4460688ZT	Rewind Arm Ass'y		1
64	110505T	Special Washer		1
65	REE4000	E-Ring		2
66	4460601T	Main Plate		1
67	480406T	Spring		1
68	———	Vinyl Tube	4.5φx 0.5tx 17l	1
69	1491191ZT	Takeup Arm Ass'y		1
70	580702T	Spring		1
71	REE2300	E-Ring		1
72	180105T	Pack Spring		1
73	LPSP2604Z	Ass'y Screw		1
74	030301T	Record Safety Lever (A)		1
75	030304T	Record Safety Bushing		1
76	480302T	Spring		1
77	1780491ZT	Record Safety Spoke		1
78	4460482ZT	Record Arm Ass'y		1
79	4460403T	Record Arm Collar		1
80	2381305T	Record Arm Spring		1
81	031602T	Leaf Switch		1
82	WNS2600Z	Washer		1

Power Supply Ass'y

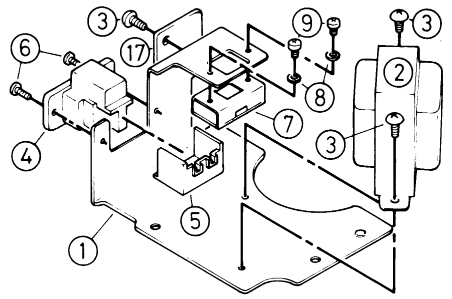
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Fig. 22-A

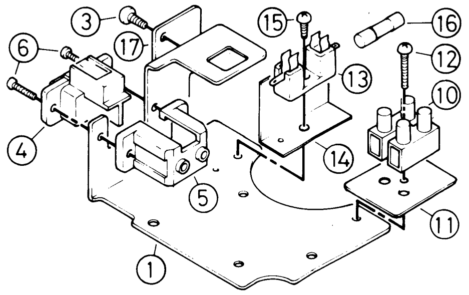
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Fig. 22-B

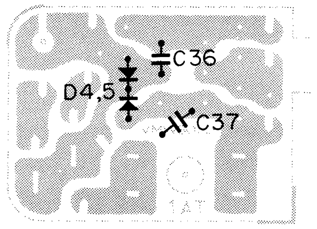


Fig. 23-A

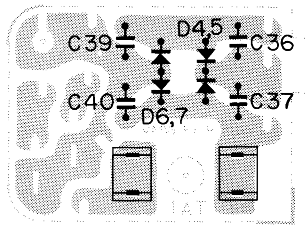

C39
D4,5
C36
C40
D6,7
C37

Fig. 23-B

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	V31012-001	Transformer Bracket	9115,E	1
1	〃 -002	〃	9115F,FB	1
2	VTP41A3-60N	Power Transformer	T4 9115	1
2	VTP41E3-60R	〃	〃 9115E	1
2	VTP41N2-60B	〃	〃 9115F,FB	1
3	SBSB3006Z	Screw		3
4	QMC0262-001	AC Socket Ass'y	J6, S3 9115,E	1
4	QMC0263-001	〃	〃 9115F,FB	1
5	TDZ001463-001	Insulation Cap	9115,E	1
5	V44399-00A	〃	9115F,FB	1
6	SPSP2606Z	Screw	9115,E	2
6	SPSP2610Z	〃	9115F,FB	2
7	T30478-002	Slide Switch	S4 9115E	1
8	WLS2600	Lock Washer	9115E	2
9	SPSP2604Z	Screw	〃	2
10	V43971-004	Terminal Ass'y	9115F,FB	1
11	V44524-001	Spacer	〃	1
12	SBSB3016Z	Screw	〃	1
13	QMG1321-002	Fuse Holder Ass'y	9115FB	1
14	V44558-001	Spacer	〃	1
15	SBSB3008Z	Screw	〃	1
16	QMF51A2-R125	Fuse	〃 (125mA)	1
17	————	Circuit Board Ass'y	Power Supply	1

Ref. No.	Parts No.	Parts Name	Description
D4,5	DS17	Silicon Diode	SANYO
D6,7	DS18	〃	〃 (9115F,FB)
C36,37	QCF11EZ-223	Ceramic Capacitor	0.02μF 25V
C39,40	〃	〃	〃 〃 (9115F,FB)
	A44594-001	Fuse Clip	9115F,FB
	QMF51A2-1R0	Fuse	〃

Amplifier Circuit Board Ass'y

(9115E)

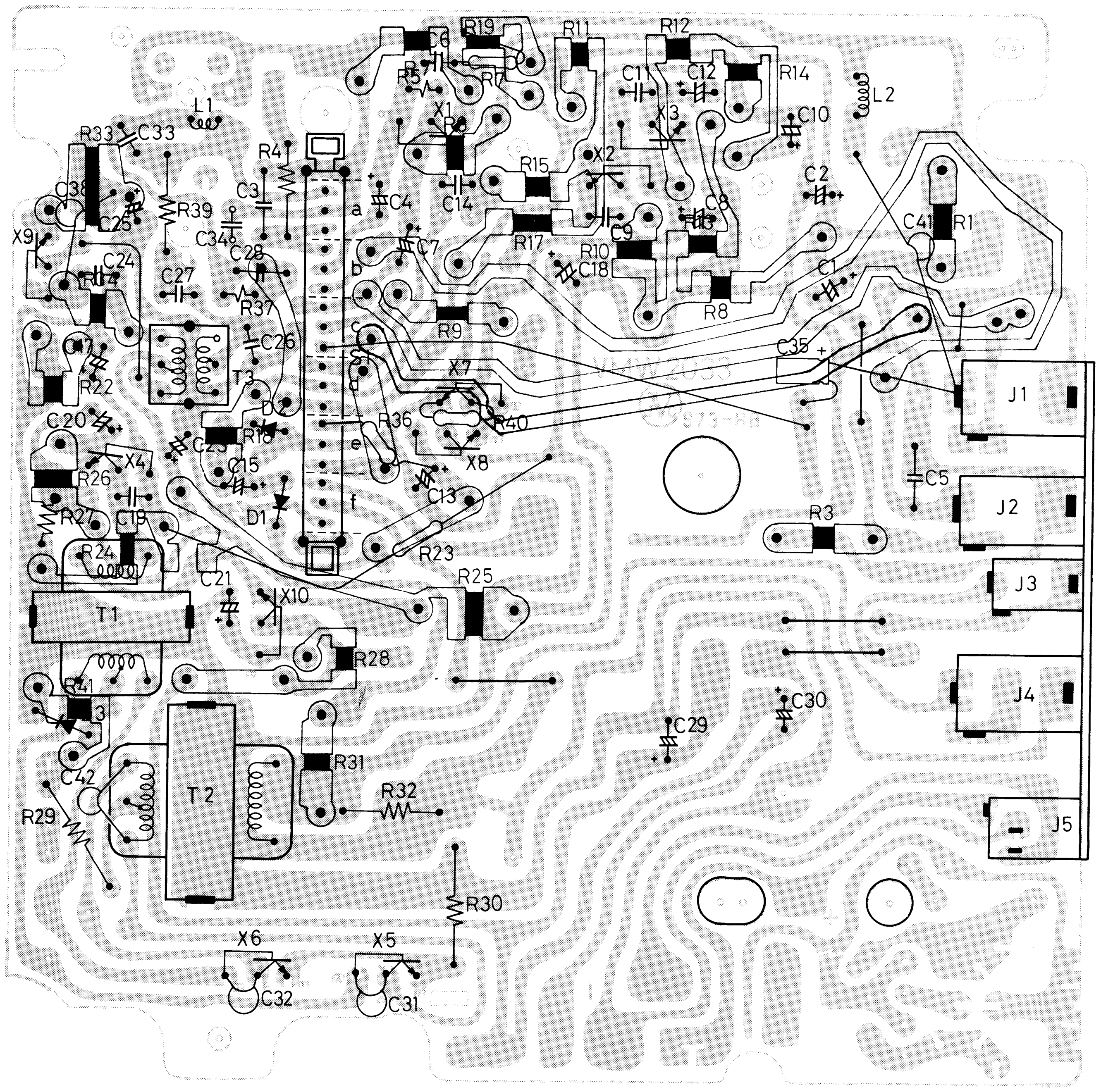
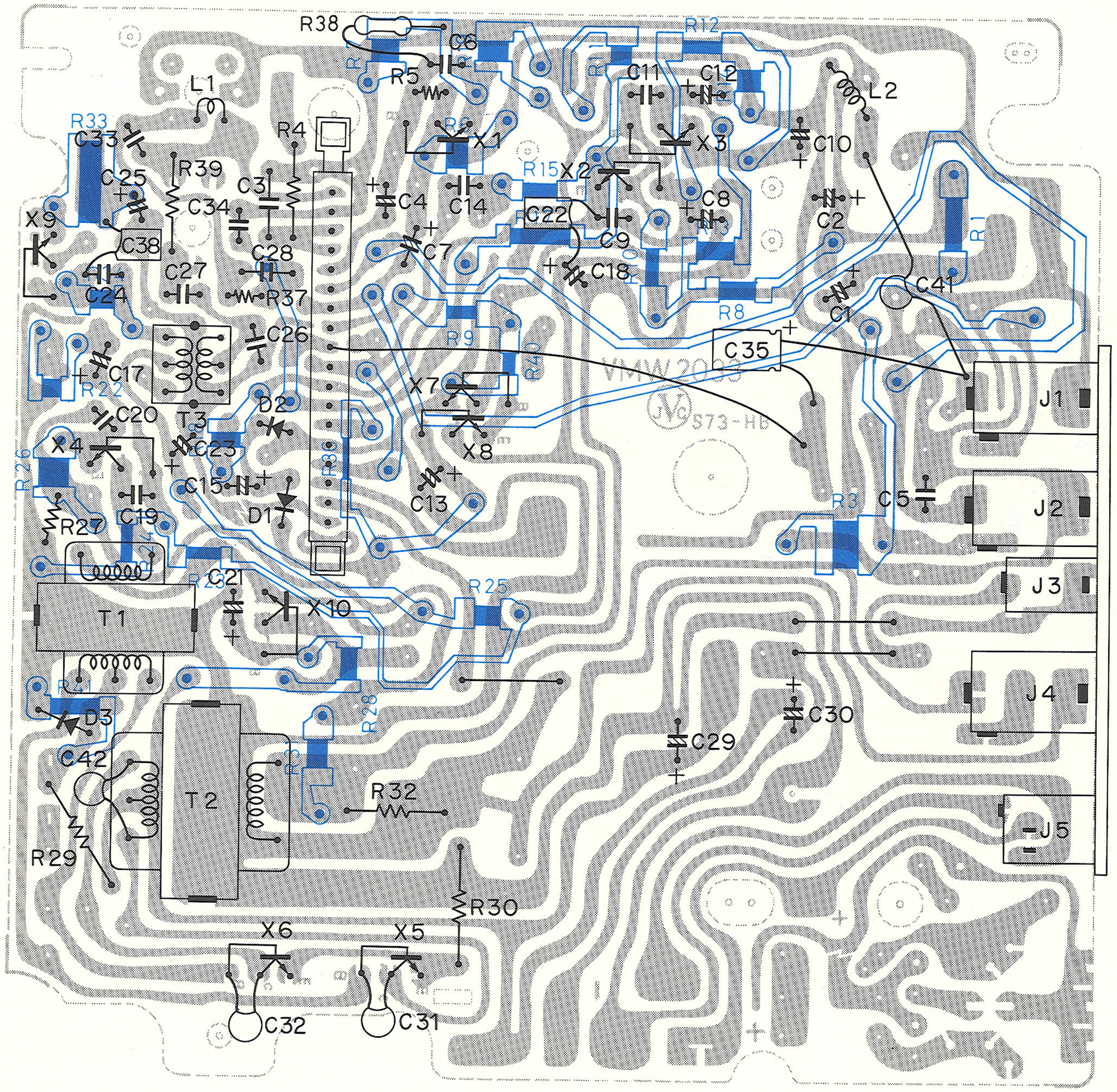

R19
C6
R11
R12
R5
R7
C11
C12
R14
L2
L1
X1
X3
C10
R33
C33
R4
R15
X2
C2
C3
C4
C14
C8
C38
R39
a
R13
C41
R1
X9
C25
C34
C28
C7
R17
R10
C9
C18
C24
C27
b
R37
R8
C1
R14
C26
R9
C35
C17
c
X7
J1
R22
T3
d
C20
D2
R36
R40
R18
C23
e
X4
X8
R26
C15
C13
C5
R27
C19
D1
f
R3
J2
R24
R23
R25
J3
T1
C21
X10
R28
J4
R41
D3
C30
C29
C42
T2
R31
R32
R29
J5
R30
X6
X5
C32
C31
VMW2033
S73-HB

Fig. 24

(9115,E)


R38
C6
R12
R5
C11
C12
L2
L1
R33
C33
R4
X1
X3
C10
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R39
C3
R15
X2
C8
C34
C4
C14
C22
C2
X9
C38
C9
C7
C18
C27
C28
R1
C24
R37
C41
C1
R8
C26
R9
C35
C17
R22
X7
J1
C20
T3
D2
VMW 2053
S73-HB
X4
C23
X8
R26
C15
C13
R3
C5
J2
R27
C19
D1
C21
R25
J3
T1
X10
J4
C30
D3
R28
C29
C42
R32
J5
T2
R29
R30
X6
X5
C32
C31

Fig. 25

Transistors

Ref. No.	Parts No.	Description	Pc	ft
X1~4,7~10 X5,6	2SC536(F) 2SD400(E)	Silicon (SANYO) 〃 (〃)	200mW 750mW	150MHz 180MHz

Diodes

Ref. No.	Parts No.	Description
D1,2,3	DS442	Silicon (SANYO)

Resistors

Ref. No.	Parts No.	Parts Name	Description
R4	QRD141K-100	Carbon	10Ω ¼W
R5	QRD143K-474	〃	470kΩ 〃
R27	〃 -100	〃	10Ω 〃
R29	QRD141K-681	〃	680Ω 〃
R30	QRW121K-R47	Wire Wound	0.47Ω ½W
R32	QRD141K-101	Carbon	100Ω ¼W
R37	QRD143K-103	〃	10kΩ 〃
R38	〃 -154	〃	150kΩ 〃
R39	QRD141K-682	〃	6.8kΩ 〃

Capacitors

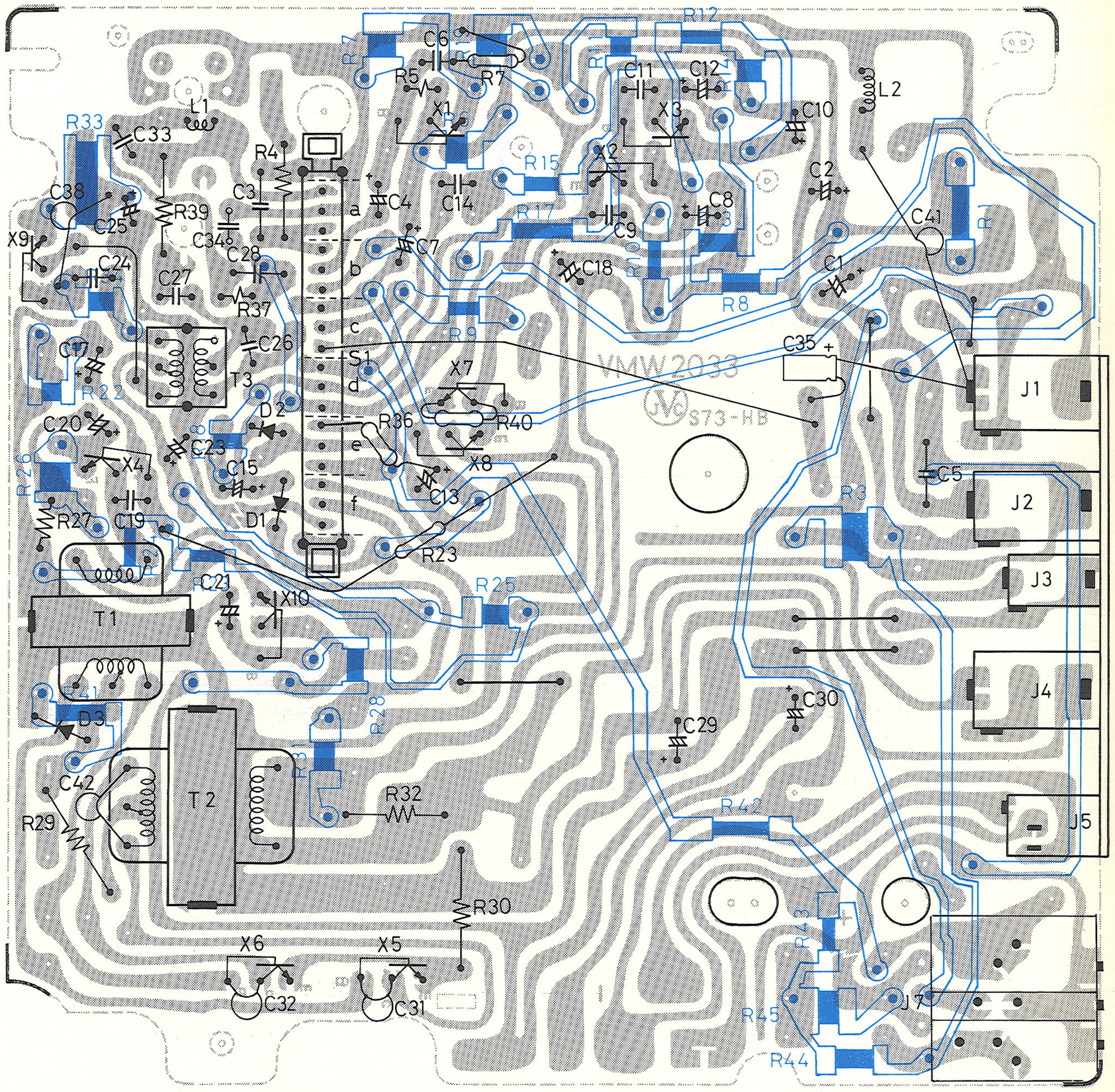
Ref. No.	Parts No.	Parts Name	Description
C1,7	QEW41HA-105	Electrolytic	1μF 50V
C2,10,20,21,23	QEW41AA-107	〃	100μF 10V
C3,28	QCY41HK-332	Ceramic	3300pF 50V
C4,8,17	QEW41EA-475	Electrolytic	4.7μF 25V
C5	QCY41HK-682	Ceramic	6800pF 50V
C6	QCS11HK-151	〃	150pF 〃
C9,11,19	〃 -101	〃	100pF 〃
C12,13,25	QEW41CA-106	Electrolytic	10μF 16V
C14	QCY41EK-103	Ceramic	0.01μF 25V
C15	QEW41HA-474	Electrolytic	0.47μF 50V
C18	QEW41AA-227D09	〃	220μF 10V
C24	QCY41HM-103	Ceramic	0.01μF 50V
C26	QCY41HK-272	〃	2700pF 〃
C27	〃 -102	〃	1000pF 〃
C29	QEW41AA-108	Electrolytic	1000μF 10V
C30	〃 -477D11	〃	470μF 〃
C31,32,34	QCF11EZ-103	Ceramic	0.01μF 25V
C33	QFS41HJ-152	Polystyrol	1500pF 50V
C35	QEW41EA-335	Electrolytic	3.3μF 25V
C38	QFM41HM-223	Mylar	0.022μF 50V
C41	QCY41HK-222	Ceramic	2200pF 〃
C42	QCF11EZ-472	〃	4700pF 25V

Others

Ref. No.	Parts No.	Parts Name	Description
L1	03226-17	Inductor	10mH
L2	〃 -22	〃	33mH
T1	Q03372-5	Input Transformer	
T2	03070-17	Output Transformer	
T3	V03083-020	Osc. Coil	Bias
J1~5	V03104-038	Jack Board Ass'y	

Amplifier Circuit Board Ass'y

(9115F)


R7
C6
R5
R7
X1
R12
C11
C12
X3
C10
L2
R33
C33
L1
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C3
C4
R15
X2
C14
C8
C2
C41
R1
C38
C25
R39
C34
C28
X9
C24
C27
R37
C26
C9
C18
C7
C1
R8
R9
a
b
c
S1
d
e
f
C17
R22
T3
X7
C35
J1
VMW2033
S73-HB
C20
D2
R36
R40
X8
C23
X4
C15
C13
R26
R27
C19
D1
R23
C5
R3
J2
J3
T1
C21
X10
R25
J4
R41
D3
R28
C30
C29
C42
T2
R31
R32
J5
R29
R42
R30
X6
X5
R43
C32
C31
R45
J7
R44

Fig. 26

(9115F,FB)

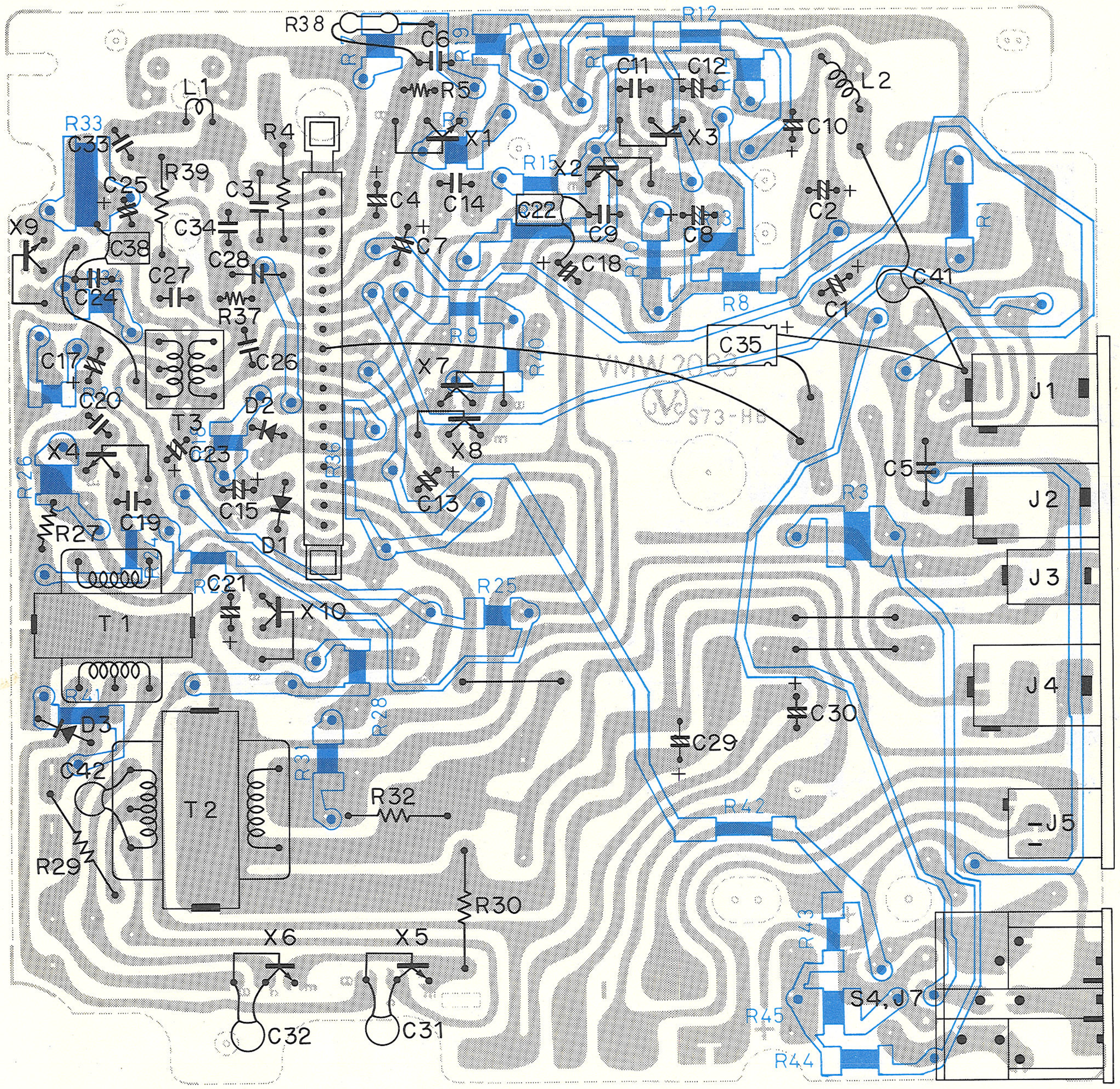
R38
C6
R7
R9
R12
R5
C11
C12
L1
L2
X1
X3
R33
C33
R4
C4
C14
R15
X2
C10
R1
C25
R39
C3
C22
C9
C8
C2
X9
C34
C38
C28
C7
C18
C41
C24
C27
R37
R8
C1
C35
C17
C26
R9
X7
R10
J1
VMW2033
S73-HB
C20
D2
X8
X4
T3
C23
C13
C5
R26
R36
R3
J2
R27
C19
C15
D1
J3
C21
X10
R25
T1
J4
R41
D3
R28
C30
C29
C42
R31
R32
R42
T2
J5
R29
R30
X6
X5
R43
S4, J7
C32
C31
R45
R44

Fig. 27

Transistors

Ref. No.	Parts No.	Description	Pc	ft
X1~4,7~10	2SC536(F)	Silicon (SANYO)	200mW	150MHz
X5,6	2SD400(E)	〃 (〃)	750mW	180MHz

Diodes

Ref. No.	Parts No.	Description
D1,2,3	DS442	Silicon (SANYO)

Resistors

Ref. No.	Parts No.	Parts Name	Description
R4	QRD141K-100	Carbon	10Ω ¼W
R5	QRD143K-474	〃	470kΩ 〃
R27	〃 -100	〃	10Ω 〃
R29	QRD141K-681	〃	680Ω 〃
R30	QRW121K-R47	Wire Wound	0.47Ω ½W
R32	QRD141K-101	Carbon	100Ω ¼W
R37	QRD143K-123	〃	12kΩ 〃
R38	〃 -154	〃	150kΩ 〃
R39	QRD141K-472	〃	4.7kΩ 〃

Capacitors

Ref. No.	Parts No.	Parts Name	Description
C1,7	QEW41HA-105	Electrolytic	1μF 50V
C2,10,20,21,23	QEW41AA-107	〃	100μF 10V
C3,28	QCY41HK-332	Ceramic	3300pF 50V
C4,8,17	QEW41EA-475	Electrolytic	4.7μF 25V
C5	QCY41HK-682	Ceramic	6800pF 50V
C6	QCS11HK-151	〃	150pF 〃
C9,11,19	〃 -101	〃	100pF 〃
C12,13,25	QEW41CA-106	Electrolytic	10μF 16V
C14	QCY41EK-103	Ceramic	0.01μF 25V
C15	QEW41HA-474	Electrolytic	0.47μF 50V
C18	QEW41AA-227D09	〃	220μF 10V
C22	QES61AM-224	Solid Aluminum	0.22μF 〃
C24	QCY41HM-103	Ceramic	0.01μF 50V
C26	QCY41HK-272	〃	2700pF 〃
C27	〃 -102	〃	1000pF 〃
C29	QEW41AA-108	Electrolytic	1000μF 10V
C30	〃 -477D11	〃	470μF 〃
C31,32 34	QCF11EZ-103	Ceramic	0.01μF 25V
C33	QFS41HJ-152	Polystyrol	1500pF 50V
C35	QEW41EA-335	Electrolytic	3.3μF 25V
C38	QFM41HM-223	Mylar	0.022μF 50V
C41	QCY41HK-222	Ceramic	2200pF 〃
C42	QCF11EZ-472	〃	4700pF 25V

Others

Ref. No.	Parts No.	Parts Name	Description
L1	03226-17	Inductor	10mH
L2	〃 -22	〃	33mH
T1	Q03372-5	Input Transformer	
T2	03070-17	Output Transformer	
T3	V03083-020	Osc. Coil	Bias
J1~5	V03104-038	Jack Board Ass'y	
J7, S4	QMC9014-003	DIN Socket Ass'y	